



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210

PO Box 145801

Salt Lake City, Utah 84114-5801

(801) 538-5340 telephone

(801) 359-3940 fax

(801) 538-7223 TTY

www.nr.utah.gov

Michael O. Leavitt  
Governor

Robert L. Morgan  
Executive Director

Lowell P. Braxton  
Division Director

December 30, 2002

TO: Internal File

THRU: Daron R. Haddock, Permit Supervisor

FROM: Gregg A. Galecki, Reclamation Specialist *GA*

RE: 2002 Second Quarter Water Monitoring, Canyon Fuel Company, LLC, Dugout Mine, C/007/039-WQ02-2

1. Was data submitted for all of the MRP required sites? YES ☒ NO ☐

*Identify sites not monitored and reason why, if known:*

2. On what date does the MRP require a five-year resampling of baseline water data.

*See Technical Directive 004 for baseline resampling requirements. Consider the five-year baseline resubmittal when responding to question one above. Indicate if the MRP does not have such a requirement.*

### Resampling due date

Low-flow 2002 (third quarter)

3. Were all required parameters reported for each site? YES ☐ NO ☒

*Comments, including identity of monitoring site:*

Due to low snowpack conditions (<70%) as measured on March 1, a special hydrograph monitoring program was initiated in the 2<sup>nd</sup> quarter, as outlined in the MRP. The special sampling program included both high-flow and low-flow water quality analysis of selected streams and springs, in conjunction with weekly flow-only monitoring of the sites. This information has yet to be prepared and submitted by the Operator; but the commitment is to have the information submitted by March 2003.

4. Were irregularities found in the data? YES ☒ NO ☐

*Comments, including identity of monitoring site:*

Of 13 total samples sites sent to the lab, 12 sites had ionic balances greater than 5 percent; ranging from 5.5 percent to 10.7 percent and averaging 8.51 percent, respectively. The operator has been contacted about this and has been in contact with the laboratory.

At DC-1, parameters that were abnormally high during 1<sup>st</sup> quarter sampling are still slightly elevated but have generally returned to normal limits. The values reported for the 2<sup>nd</sup> quarter include Conductivity 684 umhos (496 ave.), dissolved calcium 67.7 mg/l (59.6 ave.), dissolved magnesium 59.1 mg/l (46.8 ave.), dissolved sodium 27.2 mg/l (21.8 ave.), chloride 8.0 mg/l (5.7 ave.), sulfate 130 mg/l (78 ave.), and total dissolved solids 500 mg/l (389 ave.). The quality at this site will continue to be monitored.

**5. Were DMR forms submitted for all required sites?**

1 <sup>st</sup> month,	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
2 <sup>nd</sup> month,	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
3 <sup>rd</sup> month,	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

**6. Were all required DMR parameters reported?**

YES ☒ NO ☐

*Comments, including identity of monitoring site:*

**7. Were irregularities found in the DMR data?**

YES ☐ NO ☒

*Comments, including identity of monitoring site:*

Discharges from Pond 001A were documented on April 20, 21, and ~~a~~ continuously from April 26 – 30. A sample of the discharge was collected on April 28, 2002. No exceedances were documented. UPDES parameters for April 2002 were as follows: TDS 570 lbs/day, pH 7.9, Total Iron 1.0 mg/l, Conductivity 1190 umohms, and a daily maximum flow total of 57,600 gallons. Flows ranged from 40 gpm to 120 gpm, and a total of 1.04 acre-feet of water discharged. No visible oil and grease was recorded during the discharge.

Additional discharges from Pond 001A were also documented for 13 days during the month of May. A sample was collected on May 2, 2002. No exceedances were documented. UPDES parameters for May 2002 were as follows: TDS 1490 lbs/day, pH 7.7, Total Iron 0.27 mg/l, TSS undetectable, and a daily maximum flow total of 144,000 gallons. Flows ranged from 40 gpm to 100 gpm, and a total of 2.83 acre-feet of water discharged. No visible oil and grease was recorded during the discharge.

**8. Based on your review, what further actions, if any, do you recommend?**

Supplemental information for the 02-2 (2nd) quarter 2002 will be submitted within the next few months. It will be discussed with the Operator the apparent inadequate quality control being seen in the lab they use for analysis.

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